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The activation code can be inserted manually in the software in order to terminate the installation.

Alternatively, activation can be effected automatically with the use of a modem that supports handling of short text messages.

In one embodiment, the software can be taken to the computer from the network, for instance from a home side in the network.

It is beneficial, and at times even desirable, to effect a handshake between the host arrangement and the computer with a PIN code as soon as possible upon receipt of the message.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will now be described in more detail with reference to preferred embodiments thereof and also with reference to the accompanying drawings, in which

FIG. 1 is a flow chart which illustrates routing of electric mail via SMS in accordance with the present invention;

FIG. 2 is a block schematic illustrating an inventive system;

FIG. 3 is a block schematic illustrating an inventive host arrangement;

FIG. 4 illustrates diagrammatically the transmission of e-mail via SMS with agent in a system constructed in accordance with the invention;

FIG. 5 illustrates diagrammatically automatic registering of an e-mail address for access to Internet in accordance with one embodiment of the invention; and

FIG. 6 illustrates diagrammatically the manner in which a user of the inventive system can download information from Internet.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

The present invention is described in the following with reference to embodiments thereof and also with reference to the CSM system and its function with respect to short text messages (SMS), although it will be understood that the invention is not restricted to any specific wireless telephone system such as GSM and its function for short text messages (SMS), and that other telecommunications systems that include the transmission of short text messages or are expected to include this function in the future, such as the standards ADC, JDC, etc., can be used in conjunction with the invention.

Data packet transmission networks can also be notified in one or more packets with an agent in accordance with the invention. The agent is described in more detail below.

The term e-mail as used with reference to the present invention shall be understood in its widest meaning to include digital communication of e-mail files, facsimiles, pagers, etc.

FIG. 1 is a flowchart which presents an overview of how a mobile telephone subscriber obtains access to information from an external communications network, e.g. Internet, separate from the mobile telephone network according to the present invention.

In block 10, the subscriber receives an e-mail from Internet, said subscriber having the e-mail address abon.nent@teleoperator.mail.se. In this case, the Teleoperator is a company which provides mobile telephone services and which has a host arrangement (11) connected to the mobile telephone network according to the invention. The

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host arrangement 11 is comprised of interfaces and means 12, 14, 16 and 18. The Internet communication is routed through an Operator which supplies lines or trunks for telephone and/or data communication, for instance Transpac®, in FIG. 1 via a 64-kbit line to the host arrangement 11.

The interface 12 includes a communication protocol, e.g. TFC/IP (Transmission Control Protocol/Internet Protocol), for transmission between, e.g., Transpac® and the host arrangement 11. The interface 12 is also connected to a communications interpreter, e.g. WinSocket®14, which translates the data received to a format suitable for storage in the host means 16 of the host arrangement 11. The means 18 is a Data-SMS Gateway, i.e. a means having the function of connecting itself with the mobile telephone network via a modem or directly digital via routes, and is connected to SMS-C. In the present embodiments, administration of the host arrangement 11 is effected by means of Windows® applications, for instance.

There now follows an example of communication established via Internet towards the mobile station (MS) in accordance with invention, with continued reference to FIG. 1.

The invention uses a version of an SMS message that has been modified in accordance with the invention insofar that the SMS message has been provided with an SMS agent having a data field. An agent encryption code can be generated randomly for each SMS message through the medium of a random generator. The code may include selected character positions in the SMS message in which a function that is included in communications software 46 in a computer 22 for decoding and initiating transfer of e-mail can find relevant information. The SMS message preferably retains its present configuration with about 160 character positions.

E-mail 10 from Internet is stored in the host unit 16 and is coupled with an SMS message. Storage is effected with a file address, e.g. emailout.db, wherewith the host unit 16 initiates the SMS message coupled with emailout.db to the Gateway means 18 with the following text message for instance, followed by control characters or code characters, wherein the character string within the citation marks is shown in the MS display window of the address subscriber "E-mail:,Abon.doc 376 kbyte, avs xxx.yyy@sendit transmission time about 1.5 min. Activate PC and start abcdmail" 4544556467454547704656323#¤/(#))#!/"))))¤###¤. (150 characters). The characters following the last citation sign constitute the SMS agent. The SMS message may optionally be given a prefix which indicates that the message is modified message, so that a PC 22, computer or an MS unit with sufficient memory and data processing capacity is able to process the message as a modified message.

Because a subscriber may be known under several addresses in e-mail, a subscriber in the host arrangement 11 receives a primary address and possible at least one alias address. The SMS message is decoded so as to obtain access to emailout.db with the aid of the SMS agent, which discloses the correct access code to emailout.db for establishing a data connection with the host arrangement 11 given in the agent, so that e-mail can be transmitted via the MS unit 20 and preferably a PCMCIA connection (Personal Computer Memory Card International Association; standard) to a PC 22 for instance, or some other computer. The transmission can also be effected through some other known transmission between the I/O ports of an MS unit for a computer, such as wireless transmissions with infrared